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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'mii-tool.8' command

$ man mii-tool.8

MII-TOOL(8) Linux System Administrator's Manual MII-TOOL(8)

NAME

mii-tool - view, manipulate media-independent interface status

SYNOPSIS

mii-tool [-v, --verbose] [-V, --version] [-R, --reset] [-r, --restart]

[-w, --watch] [-l, --log] [-A, --advertise=media,...] [-F, --force=me?

dia] [-p, --phy=addr] interface ...

NOTE

This program is obsolete. For replacement check ethtool.

DESCRIPTION

This utility checks or sets the status of a network interface's Media Independent Interface (MII) unit. Most fast ethernet adapters use an MII to autonegotiate link speed and duplex setting.

Most intelligent network devices use an autonegotiation protocol to communicate what media technologies they support, and then select the fastest mutually supported media technology. The -A or --advertise op? tions can be used to tell the MII to only advertise a subset of its ca? pabilities. Some passive devices, such as single-speed hubs, are un? able to autonegotiate. To handle such devices, the MII protocol also allows for establishing a link by simply detecting either a 10baseT or 100baseT link beat. The -F or --force options can be used to force the MII to operate in one mode, instead of autonegotiating. The -A and -F options are mutually exclusive.

The default short output reports the negotiated link speed and link status for each interface.

OPTIONS

-v, --verbose

Display more detailed MII status information. If used twice, also display raw MII register contents.

Alert: If used three times, will force reading all MII regis? ters, including non standard ones. It's not guaranteed any valid answer from PHY while PHY communication can even hang. With driver e1000e will fail while reading register 0x07.

-V, --version

Display program version information.

-R, --reset

Reset the MII to its default configuration.

-r, --restart

Restart autonegotiation.

-w, --watch

Watch interface(s) and report changes in link status. The MII interfaces are polled at one second intervals.

-l, --log

Used with -w, records link status changes in the system log in? stead of printing on standard output.

-F media, --force=media

Disable autonegotiation, and force the MII to either 100baseTx- FD, 100baseTx-HD, 10baseT-FD, or 10baseT-HD operation.

-A media,..., --advertise=media,...

Enable and restart autonegotiation, and advertise only the spec? ified media technologies. Multiple technologies should be sepa? rated by commas. Valid media are 100baseT4, 100baseTx-FD, 100baseTx-HD, 10baseT-FD, and 10baseT-HD.

-p addr, --phy=addr

Override the MII address provided by kernel with value addr.

DIAGNOSTICS

SIOCGMIIPHY on 'eth?' failed: Invalid argument

If the interface is not running (up), kernel will refuse to re?

port its link state.

SIOCGMIIPHY on 'eth?' failed: Operation not permitted

Most kernels restrict access to root.

SIOCGMIIPHY on 'eth?' failed: No such device

This error is shown, if the kernel does not know about the named

device.

SIOCGMIIPHY on 'eth?' failed: Operation not supported

The interface in question does not support MII queries. Most

likely, it does not have MII transceivers, at all.

SEE ALSO

ethtool(8)

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SEE ALSO

http://net-tools.sourceforge.net - Homepage of the net-tools project